

Title (en)
ISOLATOR, LIGHT SOURCE DEVICE, LIGHT TRANSMITTER AND RECEIVER, OPTICAL SWITCH, OPTICAL AMPLIFIER, AND DATA CENTER

Title (de)
ISOLATOR, LICHTQUELLENVORRICHTUNG, LICHTSENDER UND -EMPFÄNGER, OPTISCHER SCHALTER, OPTISCHER VERSTÄRKER UND DATENZENTRUM

Title (fr)
ISOLATEUR, DISPOSITIF DE SOURCE DE LUMIÈRE, ÉMETTEUR ET RÉCEPTEUR DE LUMIÈRE, COMMUTATEUR OPTIQUE, AMPLIFICATEUR OPTIQUE ET CENTRE DE DONNÉES

Publication
EP 3889673 A1 20211006 (EN)

Application
EP 19891102 A 20191101

Priority
• JP 2018222905 A 20181128
• JP 2019043137 W 20191101

Abstract (en)
An isolator includes a first waveguide with a linear shape and a second waveguide with an annular shape on a substrate including a substrate surface, the first waveguide being positioned along the substrate surface. The first waveguide and the second waveguide each include a core and a cladding. The first waveguide includes a first end, a second end, and a port at each of the first end and the second end for input and output of electromagnetic waves. The core of the second waveguide includes a non-reciprocal member in at least a portion of a cross-section intersecting a direction in which the second waveguide extends.

IPC 8 full level
G02B 27/28 (2006.01); **G02B 6/125** (2006.01); **G02B 6/126** (2006.01); **G02F 1/095** (2006.01); **H04B 10/50** (2013.01)

CPC (source: EP US)
G02B 6/125 (2013.01 - EP US); **G02B 6/2746** (2013.01 - EP US); **G02B 6/29338** (2013.01 - EP US); **G02B 27/281** (2013.01 - EP);
G02F 1/0955 (2013.01 - EP US); **H04B 10/40** (2013.01 - US); **G02B 6/126** (2013.01 - EP); **G02B 2006/12157** (2013.01 - EP);
H04B 10/50 (2013.01 - EP); **H04B 10/802** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3889673 A1 20211006; EP 3889673 A4 20220803; CN 113168018 A 20210723; JP 2020086250 A 20200604; JP 7171392 B2 20221115;
US 2022026748 A1 20220127; WO 2020110612 A1 20200604

DOCDB simple family (application)
EP 19891102 A 20191101; CN 201980077150 A 20191101; JP 2018222905 A 20181128; JP 2019043137 W 20191101;
US 201917296418 A 20191101